

Title : RESRAD Default Parameters

File : FCS SOIL UNCERTAINTY ANALYSIS CO-58.RAD

Regression Coefficients for Peak All Pathways

Description of Probabilistic Variable	Repetition =			1			2			3			Position		
	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC	in	Variable	
				0.97	0.95	0.97				0.86	0.68	0.88			
Depth of roots	-0.98	-0.97	-0.98	-0.98	-0.96	-0.98	-0.93	-0.82	-0.94	-0.93	-0.82	-0.93		11	
Kd of Co-58 in Contaminated Zone	0.45	0.41	0.46	0.09	0.10	0.10	0.07	0.03	0.09	0.03	0.02	0.03		16	
Evapotranspiration coefficient	0.15	0.16	0.13	0.03	0.04	0.02	0.02	0.12	0.06	0.01	0.07	0.02		3	
Runoff coefficient	0.17	0.08	0.01	0.03	0.02	0.00	0.03	0.05	-0.03	0.01	0.03	-0.01		5	
Kd of Co-58 in Saturated Zone	0.08	0.02	0.08	0.01	0.00	0.02	-0.01	0.02	0.03	0.00	0.01	0.01		18	
Kd of Co-58 in Unsaturated Zone 1	0.09	0.06	-0.02	0.02	0.01	0.00	0.02	-0.01	-0.06	0.01	-0.01	-0.02		17	
Indoor dust filtration factor	0.03	0.04	0.02	0.01	0.01	0.00	0.01	0.08	0.00	0.00	0.05	0.00		9	
Depth of soil mixing layer	0.03	-0.10	0.01	0.01	-0.02	0.00	0.05	-0.07	0.01	0.02	-0.04	0.00		10	
Contaminated zone b parameter	0.03	-0.06	-0.02	0.01	-0.01	0.00	-0.04	-0.11	-0.02	-0.02	-0.06	-0.01		2	
Well pump intake depth	0.01	0.02	0.02	0.00	0.00	0.00	-0.03	0.01	0.06	-0.01	0.01	0.02		6	
Weathering removal constant of all vegetation	0.02	-0.01	-0.05	0.00	0.00	-0.01	0.03	-0.03	-0.08	0.01	-0.02	-0.03		13	
Contaminated zone erosion rate	0.05	-0.03	0.02	0.01	-0.01	0.00	-0.06	-0.03	0.00	-0.02	-0.01	0.00		1	
b Parameter of Unsaturated zone 1	-0.03	-0.02	0.02	-0.01	0.00	0.00	-0.05	-0.04	0.01	-0.02	-0.02	0.00		7	
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.04	0.03	-0.03	-0.01	0.01	-0.01	0.00	0.00	0.01	0.00	0.00	0.00		12	
Mass loading for inhalation	0.01	0.04	-0.05	0.00	0.01	-0.01	0.03	-0.03	-0.02	0.01	-0.02	-0.01		8	
Wind Speed	0.03	0.03	-0.06	0.01	0.01	-0.01	0.05	-0.03	-0.07	0.02	-0.02	-0.03		4	
Humidity in air	0.04	-0.04	0.02	0.01	-0.01	0.00	0.01	-0.03	0.05	0.00	-0.02	0.02		15	
Wet foliar interception fraction of leafy vegetables	-0.04	0.05	-0.03	-0.01	0.01	-0.01	-0.04	0.04	-0.05	-0.01	0.02	-0.02		14	

The coefficient of determination ranges from 0 to 1; it provides a measure of the variation in the dependent variable (Dose or Risk) that is explained by the variation in the independent variables under the assumed linear regression model.